

BLITZDÄMMER®

Description

Blitzdämmer® is a hydraulically-setting premixed dry mortar made of natural raw materials. Its carefully chosen hydraulic binders are tailored to the clay part present in the inert rock flour. This combined with the high degree of fineness of the material produces excellent water retaining and flowing capacity. The product can be mixed to a free-flowing suspension without any further aggregates by simply adding water.

Properties

Blitzdämmer is eminently suitable for environmentally friendly use.

Effective corrosion protection is ensured for pipes made of steel or grey cast iron.

Blitzdämmer can be mixed with various ratios of water to create a suspension. Depending on the water/binder ratio, an extremely good rheology of up to several hundred metres in free casting is achieved. There is no separation, even at high pump pressures.

Blitzdämmer allows cavity-free backfilling with volume stability. The final compressive strengths after 28 days can be set between 15 – 28 MPa by adjusting the water/binder ratio.

The special properties of Blitzdämmer are basing on the use of additives.

Processing instructions

Blitzdämmer can be made to any consistency required. The product is mixed with water to achieve a suspension meeting the processing requirements.

All commercially available mixer units can be used to make the Blitzdämmer suspension.

Applications

Blitzdämmer is particularly suitable:

- for backfilling in any kind of underground cavity where high strength values are required;
- for general grouting-based subsoil stabilisation;
- for backfilling of borehole spaces in protective conduits and pressure pipelines (relining work);
- for lifting and undersealing concrete carriageway slabs;
- for underpinning buildings, to remedy subsidence and in underground railway construction;
- for sealing work on steel sheet piling, tunnel tubes and other constructions.

Delivery / Storage

25-kg bags on Europallet, fully shrunk; bulk or big bag. Dry storage on pallets is required. If stored correctly, the material can be kept for at least 6 months.

Status: May 2023

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The above data relate to tests under laboratory conditions with the usual metrological tolerances. These along with records of other "suitability tests" are designed to obtain information about the basic suitability of our product in respect of the intended purpose. Even in the case of a project-specific test, the information should not be regarded as a promise of properties with the effect that we can be held responsible for damages resulting from the absence of features and/or properties. Our information therefore does not release customers from the obligation to carry out their own specific tests and take decisions on their own responsibility.

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TECHNICAL DATA SHEET

BLITZDÄMMER®

Technical Data

Water/binder ratio	0.50	0.55	0.60	0.70
Consistency range	pumpable	free-flowing	extremely free-flowing	for grouting processes
Setting				
Start [min]	180	190	200	210
Compressive strength (in accordance with DIN EN 196)				
after 1 day [MPa]	5.0	4.0	2.5	1.5
after 3 days [MPa]	15.0	12.0	9.0	7.0
after 7 days [MPa]	18.5	16.0	14.0	10.0
after 28 days [MPa]	28.0	24.5	20.0	15.5
Formulation				
Water [l/m ³]	581	609	619	657
Binder [kg/m ³]	1,163	1,107	1,032	940
Suspension density [kg/m ³]	1,744	1,716	1,651	1,597
Water per 25 kg bag [l]	12.5	13.8	15.0	17.5

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